CLAIMS

Having thus described our invention, what I claim as new

and desire to secure by Letters Patent is as follows:

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1. A system enabling a first device operatively communicable

with at least a primary wireless network to transmit a device

query to a wireless device operatively communicable with the

primary wireless network and at least a secondary wireless

10   network, said system comprising:

a host computer, operatively communicable with the primary

wireless network, capable of receiving a query from the

first device;

a routing switch receiving the query from said host computer,

15   retrieving a profile of the wireless device comprising

network data characteristic of communication requirements

associated with the primary wireless network and the

secondary wireless network with which the wireless device

is communicable, appending to the query a first

20   transmission header characteristic of first communication

requirements associated with the primary wireless network,

transmitting the query and the first transmission header

to the primary wireless network and, responsive to the

profile after a predetermined number of transmission

25   attempts in the primary wireless network, appending a

second transmission header characteristic of second

communication requirements associated with the secondary

wireless network to the query in accordance with a

communication protocol used by the secondary wireless

5   network, and transmitting the query and the second

transmission header to the secondary wireless network; and

a switch operatively communicable with the secondary wireless

network for receiving the query and the second

transmission header transmitted by said routing switch,

10   transmitting the query and at least a portion of the

second transmission header to the wireless device via the

secondary wireless network, and transmitting a query

response from the wireless device to the first device.

15   2. The system according to claim 1, wherein said routing

switch queues each query prior to transmitting to the secondary

wireless network.

3. The system according to claim 1, wherein the query

20   comprises at least one of a wireless device availability check,

a roaming history report and a modem statistics report.

4. The system according to claim 1, wherein the first device

is a wireless device registered with the primary wireless

25   network.

5. The system according to claim 1, wherein the first device is a non-wireless device registered with the primary wireless network.

5   6. A system enabling a first device operatively communicable with at least a primary wireless network to query a wireless device operatively communicable with the primary wireless network and at least a secondary wireless network, said system comprising:

10   a primary wireless network comprising a routing switch receiving the query from the first device, retrieving a profile of the wireless device comprising network data characteristic of communication requirements associated with the primary wireless network and the secondary

15   wireless network with which the wireless device is communicable, appending to the query a first transmission header characteristic of internal routing and radio frequency communication requirements associated with the primary wireless network, transmitting the query and at

20   least a portion of the first transmission header to the wireless device in the primary wireless network and, responsive to the profile after a predetermined number of transmission attempts in the primary wireless network, appending a second transmission header characteristic of

25   second internal routing and radio frequency communication

requirements associated with the secondary network, and

transmitting the query and the second transmission header

to the secondary wireless network; and

a switch operatively communicable with the secondary wireless

5   network for receiving the query and the second

transmission header transmitted by said routing switch,

transmitting the query and at least a portion of the

second transmission header to the wireless device via the

secondary wireless network, and transmitting a query

10   response from the wireless device to the first device.

7. The system according to claim 6, wherein said routing

switch queues each query prior to transmitting to the secondary

wireless network.

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8. The system according to claim 6, wherein the query

comprises at least one of a wireless device availability check,

a roaming history report and a modem statistics report.

20   9. The system according to claim 6, wherein the first device

is a wireless device registered with at least the primary

wireless network.

10. The system according to claim 6, wherein the first device is a non-wireless device registered with at least the primary wireless network.

5   11. A system for enabling a first device operatively communicable with at least a primary wireless network to query a wireless device operatively communicable with the primary wireless network and a secondary wireless network, said system comprising:

10   a host computer, operatively communicable with the primary wireless network, capable of receiving a query from the first device;

the primary wireless network comprising a routing switch comprising:

15   a web server operatively communicable with said host computer for electronically formatting the query for transmission to the first device;

a middleware server enabling said host computer to operatively communicate with said routing switch;

20   an internal routing server receiving the query from said host computer and appending to the query a transmission header characteristic of first communication requirements associated with the primary wireless network for internal routing within said primary

25   wireless network;

a request server retrieving a profile of the wireless

device comprising data pertaining to at least the

primary wireless network and the secondary wireless

network with which the wireless device is communicable;

5   a routing server operatively communicable with said

request server for appending to the transmission header

a radio frequency header characteristic of first radio

frequency communication requirements associated with the

primary wireless network, transmitting the query and at

10   least a portion of the radio frequency header to the

wireless device in the primary wireless network;

a complementary network server receiving at least the

query from said routing server and appending to the

query a second transmission header characteristic of

15   secondary internal routing and radio frequency

communication requirements associated with the secondary

wireless network; and

a switch operatively communicable with the secondary

wireless network for receiving the query and the second

20   transmission header transmitted by said routing switch,

transmitting the query and at least a portion of the

second transmission header to the wireless device via

the secondary wireless network, and transmitting a query

response from the wireless device to the first device.

12. The system according to claim 11, wherein said routing switch further comprises a query server operatively communicable with at least one of said request server, said routing server, and said complementary network server that

5   manages the flow of each query from the primary wireless network to the secondary wireless network.

13. The system according to claim 11, wherein the query comprises at least one of a wireless device availability check,

10   a roaming history report and a modem statistics report.

14. The system according to claim 11, wherein the first device is a wireless device registered with the primary wireless network.

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15. The system according to claim 11, wherein the first device is a non-wireless device registered with the primary wireless network.

20   16. A system for enabling a first device operatively communicable with at least a primary wireless network to transmit a device query to a wireless device operatively communicable with the primary wireless network and at least a secondary wireless network, said system comprising:

a primary wireless network comprising a routing switch

comprising:

a web server electronically formatting the query for

transmission to the first device;

5   a middleware server enabling the first device to

operatively communicate with said routing switch;

an internal routing server receiving the query and

appending to the query a first transmission header

characteristic of first communication requirements

10   associated with the primary network for internal routing

within the primary wireless network;

a request server retrieving a profile of the wireless

device comprising network data characteristic of first

communication requirements associated with the primary

15   wireless network and the secondary wireless network with

which the wireless device is communicable;

a routing server operatively communicable with said

request server adding a radio frequency header to the

query, transmitting the query and the radio frequency

20   header to the wireless device in the primary wireless

network;

a complementary network server receiving at least the

query from said routing server and, responsive to the

profile and after a predetermined number of transmission

25   attempts, appending to the query a second transmission

header characteristic of communication requirements

associated with the secondary wireless network; and

a switch operatively communicable with the secondary

wireless network for receiving the query and at least a

5   portion of the second transmission header transmitted by

said routing switch, transmitting the query and at least

a portion of the second transmission header to the

wireless device via the secondary wireless network, and

transmitting a query response from the wireless device

10   to the first device.

17. The system according to claim 16, wherein said routing

switch further comprises a query queue operatively communicable

with at least one of said request server, said routing server,

15 and said complementary network server that manages the flow of

each query from the primary wireless network to the secondary

wireless network.

18. The system according to claim 16, wherein the query

20 comprises at least one of a wireless device availability check,

a roaming history report and a modem statistics report.

19. The system according to claim 16, wherein the first

device is a wireless device registered with the primary

25 wireless network.

20. The system according to claim 16, wherein the first device is a non-wireless device registered with at least the primary wireless network.

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21. A system for enabling a first device operatively communicable with at least a primary wireless network to transmit a device query to a wireless device operatively communicable with the primary wireless network and at least a

10   secondary wireless network, said system comprising:

a host computer, operatively communicable with the primary wireless network, capable of receiving a query from the first device;

the primary wireless network comprising a routing switch

15   comprising:

at least a first line handler for receiving the query from said host computer;

a web server, operatively communicable with said host computer via said at least one first line handler,

20   electronically formatting the query for transmission to the wireless device;

a middleware server enabling said host computer to communicate with said routing switch via said at least one first line handler;

a request server retrieving a profile of the wireless

device comprising network data characteristic of

communication requirements associated with the primary

wireless network and the secondary wireless network with

5   which the wireless device is communicable;

a routing server, operatively communicable with said

request server, adding a radio frequency header to the

query;

at least a second line handler for receiving the query

10   from said routing server, and transmitting the query and

at least a portion of the radio frequency header to the

wireless device in the primary wireless network;

a complementary network server receiving at least the

query from said routing server and adding a second

15   transmission header to the query in accordance with a

communication protocol used by the secondary wireless

network; and

at least a third line handler for receiving at least the

query from said complementary network server and

20   transmitting at least the query to the secondary

wireless network; and

a switch operatively communicable with the secondary wireless

network for receiving the query and at least a portion of

the second transmission header transmitted by said routing

25   switch, transmitting the query and at least a portion of

the second transmission header to the wireless device via
the secondary wireless network, and transmitting a query
from the wireless device to the first device.

5   22. The system according to claim 21, wherein said routing
switch further comprises a query queue operatively communicable
with at least one of said request server, said routing server,
and said complementary network server that manages the flow of
each query from the primary wireless network to the secondary
10   wireless network.

      23. The system according to claim 21, wherein the query
comprises at least one of a wireless device availability check,
a roaming history report and a modem statistics report.
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      24. The system according to claim 21, wherein the first
device is a wireless device registered with at least the
primary wireless network.

20   25. The system according to claim 21, wherein the first
device is a non-wireless device registered with at least the
primary wireless network.

      26. A system for enabling a first device operatively
25   communicable with at least a primary wireless network to

transmit a device query to a wireless device operatively

communicable with the primary wireless network and at least a

secondary wireless network, said system comprising:

a primary wireless network comprising a routing switch

5   comprising:

at least a first line handler for receiving the device

query;

a request server retrieving a profile of the wireless

device comprising network data pertaining to at least

10   the primary wireless network and the secondary wireless

network with which the wireless device is communicable;

a routing server operatively communicable with said

request server for adding a radio frequency header to

the query;

15   at least a second line handler for receiving the query

from said routing server, and transmitting the query and

at least a portion of the radio frequency header to the

wireless device in the primary wireless network;

a complementary network server receiving the query from

20   said routing server and, after receiving a predetermined

number of transmission attempts via said at least one

second line handler, appending a transmission header to

the query in accordance with a communication protocol

used by the secondary wireless network; and

at least a third line handler for receiving the query and

at least a portion of the transmission header from said

complementary network server and transmitting the query

and the transmission header to the secondary wireless

5   network; and

a switch operatively communicable with the secondary

wireless network for receiving the query and the

transmission header transmitted by said routing switch,

transmitting the query and at least a portion of the

10   transmission header to the wireless device via the

secondary wireless network, and transmitting a query

response from the wireless device to the first device.

27. The system according to claim 26, wherein said routing

15 switch further comprises a queue operatively communicable with

at least one of said request server, said routing server, and

said complementary network server that manages the flow of each

query from the primary wireless network to the secondary

wireless network.

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28. The system according to claim 26, wherein the query

comprises at least one of a wireless device availability check,

a roaming history report and a modem statistics report.

29. The system according to claim 26, wherein the first device is a wireless device registered with at least the primary wireless network.

5   30. The system according to claim 26, wherein the first device is a non-wireless device registered with at least the primary wireless network.

31. A system enabling a first device operatively communicable

10   with at least a primary wireless network to transmit a device query to a wireless device operatively communicable with the primary wireless network and at least a secondary wireless network, said system comprising:

a primary wireless network comprising a routing switch for:

15   a) receiving the wireless device query;

b) retrieving a profile of the wireless device comprising network data pertaining to at least the primary wireless network and the secondary wireless network with which the wireless device is communicable;

20   c) determining whether the wireless device last used the primary or secondary wireless network;

d) adding a radio frequency header to the query in accordance with the last used network as determined in said part c);

e) transmitting the query to the wireless device in the

network as determined in said part c);

f) adding, after a predetermined number of transmission

attempts to the primary network, a transmission header

5   in accordance with a communication protocol used by at

least one of the primary and secondary wireless network

to which the query has not yet been transmitted;

g) transmitting the query to the wireless device in

network as determined in said part f); and

10   a switch operatively communicable with the secondary

wireless network for receiving the query and at least a

portion of the message transmission header transmitted

by said routing switch, transmitting the query and the

message transmission header to the wireless device via

15   the secondary wireless network, and transmitting a query

response from the wireless device to the first device.

32. A method for enabling a first device operatively

communicable with at least a primary wireless network to query

20 a wireless device operatively communicable with the primary

wireless network and at least a secondary wireless network,

said method comprising the steps of:

transmitting a query from the first device to at least the

primary wireless network;

retrieving a profile of the wireless device, the profile

comprising data pertaining to at least the primary

wireless network and the secondary wireless network with

which the wireless device is communicable;

5   adding a radio frequency header to the query;

transmitting the query and at least a portion of the radio

frequency header to the wireless device in the primary

wireless network;

adding, after a predetermined number of transmission

10   attempts, a second transmission header characteristic of

second communication requirements associated with the

secondary network to the query in accordance with a

communication protocol used by the secondary wireless

network;

15   transmitting the query and at least a portion of the second

transmission header to the secondary wireless network;

receiving the query at the secondary wireless network and

further transmitting the query to the wireless device via

the secondary wireless network; and

20   displaying the results of the query at the first device.

33. The method according to claim 32, further comprising the

step of queuing each query prior to transmitting to at least

one of the primary and secondary wireless networks.

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34. The method according to claim 32, wherein the query comprises at least one of a wireless device availability check, a roaming history report and a modem statistics report.

5   35. The method according to claim 32, wherein the first device is a wireless device registered with at least the primary wireless network.

36. The method according to claim 32, wherein the first

10   device is a non-wireless device registered with at least the primary wireless network.

37. A method for enabling a first device operatively communicable with at least a primary wireless network to

15   transmit a query to a wireless device operatively communicable with the primary wireless network and at least a secondary wireless network, said method comprising the steps of:

a) transmitting a query from the first device to at least the primary wireless network, wherein the query comprises at

20   least one of a device availability check, a roaming history report and a modem statistics report;

b) retrieving a profile of the wireless device comprising network data pertaining to at least the primary wireless network and the secondary wireless network with which the

25   wireless device is communicable;

c) determining at least one of the primary and secondary wireless network with which the wireless device was last communicating;

d) adding a first transmission header to the query in accordance with network communication requirements as determined in said step c);

e) transmitting the query and at least a portion of the radio frequency header to the wireless device in the network as determined in said step c);

f) adding, after a predetermined number of transmission attempts, a second transmission header in accordance with a communication protocol used by at least one of the primary and secondary wireless networks to which the query has not yet been transmitted;

g) transmitting the query and at least a portion of the second transmission header to the wireless device in the wireless network as determined in said step f); and

h) displaying the results of the query at the first device.

38. A method for enabling a first device operatively communicable with at least a primary wireless network to query a wireless device operatively communicable with the primary wireless network and at least a secondary wireless network, said method comprising:

transmitting a query from the first device to at least the

    primary wireless network;

attaching to the query a transmission header for internal

    routing within the primary wireless network;

5   retrieving a profile of the wireless device comprising data

    pertaining to at least the primary wireless network and

    the secondary wireless network with which the wireless

    device is communicable;

adding a radio frequency header to the query;

10   transmitting the query and at least a portion of the radio

    frequency header to the wireless device in the primary

    wireless network;

adding, after a predetermined number of transmission

    attempts, a second transmission header to the query in

15   accordance with a communication protocol used by the

    secondary wireless network;

transmitting the query to the wireless device via the

    secondary wireless network; and

displaying the results of the query at the first device.

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    39. The method according to claim 38, further comprising the

step of queuing queries prior to transmitting to the wireless

device in the primary wireless network and the secondary

wireless network.

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40. The method according to claim 38, wherein the query comprises at least one of a wireless device availability check, a roaming history report and a modem statistics report.

5   41. The method according to claim 38, wherein the first device is a wireless device registered with at least the primary wireless network.

42. The method according to claim 38, wherein the first
10   device is a non-wireless device registered with at least the primary wireless network.

43. A method for enabling a first device operatively communicable with at least a primary wireless network to
15   transmit a query to a wireless device operatively communicable with the primary wireless network and at least a secondary wireless network, said method comprising the steps of:

transmitting a query from the first device to a host computer operatively communicable with the primary wireless
20   network;

providing at least a first line handler for receiving the query from the host computer;

retrieving a profile of the wireless device comprising network data pertaining to at least the primary wireless

network and the secondary wireless network with which the

wireless device is communicable;

adding a first transmission header to the query;

transmitting the query and at least a portion of the first

5   transmission header to the wireless device in the primary

wireless network;

adding, after a predetermined number of transmission

attempts, a second transmission header to the query in

accordance with a communication protocol used by the

10   secondary wireless network;

transmitting the query and the second transmission header to

the secondary wireless network;

transmitting the query and at least a portion of the second

transmission header to the wireless device via the

15   secondary wireless network; and

displaying the query results on a display device operatively

connected to the first device.

44. The method according to claim 43, further comprising the

20   step of queuing the query prior to transmission to at least one

of the primary wireless network and the secondary wireless

network.

45. The method according to claim 43, further comprising the steps of receiving a negative acknowledgement message from the secondary wireless network.

5   46. The method according to claim 43, wherein the first device is a wireless device registered with at least the primary wireless network.

47. The method according to claim 43, wherein the first

10   device is a non-wireless device registered with at least the primary wireless network.

48. A communication system enabling communication devices to query devices across complimentary networks, comprising:

15   a first communication device transmitting a query and
           communicating substantially consistent with a first
           communication format;

      a primary wireless network operatively connected to, and
           directly communicating with, said first communication

20   device and receiving the query, said primary wireless
           network determining responsive to the query whether the
           query is to be transmitted within said primary wireless
           network, and when the query is to be transmitted within
           said primary wireless network, formatting the query to be

25   received substantially consistent with the first

communication format, routing the query to a device

destination within said primary wireless network, and when

the query is not to be transmitted within said primary

wireless network, said primary wireless network formatting

5   the query in accordance with a second communication format

and routing the query to a network destination, optionally

via the primary wireless communication;

a second communication device not capable of directly

communicating with said primary wireless network and

10   communicating in accordance with the second communication

format;

a secondary wireless network operatively connected to, and

directly communicating with, said second communication

device and said primary wireless network, said secondary

15   wireless network receiving the query from said primary

wireless network as the network destination when the query

is not to be transmitted within said primary wireless

network, optionally via secondary wireless communication

and routing the query to said second communication device

20   as the device destination responsive to said second

communication format formatted by said primary wireless

network.

49. The system according to claim 48, wherein said first

25   communication device is at least one of a wireless device

registered with at least said primary wireless network and a
non-wireless device registered with at least said primary
wireless network.

5   50. The system according to claim 48, wherein the query
comprises a second communication device availability check, a
roaming history report and a modem statistics report.

        51. A communication system enabling communication devices to
10   communicate across complimentary networks, comprising:
        a first communication device transmitting a device query and
              communicating substantially consistent with a first
              communication format;
        a primary wireless network operatively connected to, and
15   directly communicating with, said first communication
              device and receiving the query, said primary wireless
              network determining responsive to the query whether the
              query is to be transmitted within said primary wireless
              network, and when the query is to be transmitted within
20   said primary wireless network, formatting the query to be
              received substantially consistent with the first
              communication format, transmitting the query to a device
              destination within said primary wireless network, and when
              the query is not to be transmitted within said primary
25   wireless network, said primary wireless network formatting

the query in accordance with a second communication format

and transmitting the query to a network destination,

optionally via the primary wireless communication;

a second communication device not capable of directly

5   communicating with said primary wireless network and

communicating in accordance with the second communication

format;

a secondary wireless network operatively connected to, and

directly communicating with, said second communication

10   device and said primary wireless network, said secondary

wireless network receiving the query from said primary

wireless network as the network destination when the query

is not to be transmitted within said primary wireless

network, optionally via secondary wireless communication

15   and transmitting the query to said second communication

device as the device destination responsive to said second

communication format formatted by at least in part by said

primary wireless network.

20   52. The system according to claim 51, wherein said first

communication device is at least one of a wireless device

registered with at least said primary wireless network and a

non-wireless device registered with at least said primary

wireless network.

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53. The system according to claim 51, wherein the query

comprises a second communication device availability check, a

roaming history report and a modem statistics report.

5   54. A communication system enabling communication devices to

communicate across complimentary networks, comprising:

        a first communication device transmitting a device query and

             communicating in accordance with a first communication

             format;

10   a primary wireless network operatively connected to, and

             directly communicating with, said first communication

             device and receiving the query, said primary wireless

             network determining responsive to the query whether the

             query is to be transmitted within said primary wireless

15   network and outside said primary wireless network, and

             when the query is to be transmitted within said primary

             wireless network, formatting the query to be received in

             accordance with the first communication format, routing

             the query to a device destination within said primary

20   wireless network via primary wireless communication, and

             when the query is to be transmitted outside said primary

             wireless network, optionally in addition to routing the

             query within said primary wireless network, said primary

             wireless network formatting the query in accordance with a

second communication format and routing the query outside

said primary wireless network;

a second communication device not capable of directly

communicating with said primary wireless network and

5   communicating in accordance with the second communication

format;

a secondary wireless network operatively connected to, and

directly communicating with, said second communication

device and said primary wireless network, said secondary

10   wireless network receiving the query from said primary

wireless network and routing the query to said second

communication device responsive to said second

communication format formatted by said primary wireless

network.

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55. The system according to claim 54, wherein the first

communication device is at least one of a wireless device

registered with at least said primary wireless network and a

non-wireless device registered with at least said primary

20 wireless network.

56. The system according to claim 54, wherein the query

comprises at least one of a second communication device

availability check, a roaming history report and a modem

25 statistics report.

57. A communication system enabling communication devices to communicate across complimentary networks, comprising:

a first communication device transmitting a device query and communicating in accordance with a first communication

5   format;

a primary wireless network operatively connected to, and directly communicating with, said first communication device and receiving the query, said primary wireless network determining responsive to the query whether the

10   query is to be transmitted within said primary wireless network and outside said primary wireless network, and when the query is to be transmitted within said primary wireless network, formatting the query to be received in accordance with the first communication format,

15   transmitting the query to a device destination within said primary wireless network via primary wireless communication, and when the query is to be transmitted outside said primary wireless network, optionally in addition to the transmitting the query within said primary

20   wireless network, said primary wireless network formatting the query in accordance with a second communication format and transmitting the query outside said primary wireless network;

a second communication device not capable of directly

25   communicating with said primary wireless network and

communicating in accordance with the second communication format;

a secondary wireless network operatively connected to, and directly communicating with, said second communication

5   device and said primarily wireless network, said secondary wireless network receiving the query from said primary wireless network and transmitting the query to the second communication device responsive to said second communication format formatted by said primary wireless

10   network.

58. The system according to claim 57, wherein the first communication device is at least one of a wireless device registered with at least said primary wireless network and a

15   non-wireless device registered with at least said primary wireless network.

59. The system according to claim 57, wherein the query comprises at least one of a second communication device

20   availability check, a roaming history report and a modem statistics report.

60. A system enabling a first device operatively communicable with at least a primary wireless network to transmit a device

25   query to a wireless device operatively communicable with said

primary wireless network and at least a secondary wireless network, the query comprising at least one of a wireless device availability check, a roaming history report and a modem statistics report, said system comprising:

5   means for processing, operatively communicable with said primary wireless network, a device query from the first device;

said primary wireless network comprising switching means for:

receiving the query from said means for processing;

10   reading a profile of the wireless device comprising data pertaining to at least the primary wireless network and the secondary wireless network with which the wireless device is communicable;

adding a first transmission header to the query;

15   transmitting the query and at least a portion of the first transmission header to the wireless device in the primary wireless network;

adding, after a predetermined number of transmission attempts, a second transmission header to the query in

20   accordance with a communication protocol used by the secondary wireless network; and

transmitting the query and at least a portion of the second transmission header to the secondary wireless network; and

a switch operatively communicable with the secondary wireless

network for receiving the query and at least a portion of

the second transmission header transmitted by said

switching means, transmitting the query and at least a

5   portion of the second transmission header to at least one

of the wireless device via the secondary wireless network,

and transmitting the query result to said routing switch

for display at the first device.

10   61. A system for enabling a first device operatively

communicable with at least a primary wireless network to

transmit a device query a wireless device operatively

communicable with the primary wireless network and at least a

secondary wireless network, the device query comprising at

15   least one of a device availability check, a roaming history

report and a modem statistics report, said system comprising:

means for processing, operatively communicable with the

primary wireless network, a device query from the first

device;

20   said primary wireless network comprising a routing switch

comprising:

an internal routing server receiving the query from said

means for processing and attaching to the query a

transmission header for internal routing within the

25   primary wireless network;

a request server retrieving a profile of the wireless

device comprising data pertaining to at least the

primary wireless network and the secondary wireless

network with which the wireless device is communicable;

5   a routing server operatively communicable with said

request server adding a radio frequency header to the

query, transmitting the query to the wireless device in

the primary wireless network;

a complementary network server for receiving the query,

10   after a predetermined number of transmission attempts,

from said routing server and adding a second

transmission header to the query in accordance with a

communication protocol used by the secondary wireless

network; and

15   means for switching, operatively communicable with the

primary and secondary wireless networks, receiving the

query transmitted by said complementary network server,

transmitting the query to the wireless device via the

secondary wireless network, and transmitting the query

20   results to said routing switch; and

display means operatively connected to the first device for

displaying the query result.

62. In a data communication system having a first device

25   operatively communicable with at least a primary wireless

network to transmit a device query to a wireless device

operatively communicable with the primary wireless network and

at least a secondary wireless network, wherein the system has

means for processing, operatively communicable with the primary

5   wireless network and capable of receiving a query from the

first device, and wherein the primary wireless network has: a

routing switch comprising an internal routing server receiving

the query from the means for processing and attaching to the

query transmission headers for internal routing within the

10   primary wireless network, a request server retrieving a profile

of the wireless device comprising data pertaining to at least

the primary wireless network and the secondary wireless network

with which the wireless device is communicable, a routing

server operatively communicable with the request server for

15   adding a radio frequency header to the query, transmitting the

query and at least a portion of the radio frequency header to

the wireless device in the primary wireless network and, a

complementary network server for receiving, after a

predetermined number of transmission attempts, the query from

20   the routing server and adding a second transmission header to

the query in accordance with a communication protocol used by

the secondary wireless network, and wherein the secondary

wireless network has means for switching, operatively

communicable with the secondary wireless network, that receives

25   the query and at least a portion of the second transmission

header transmitted by the complementary network server and

transmits the query to the wireless device via the secondary

wireless network, a method of enabling the first device to

transmit a query to the wireless device, said method comprising

5   the steps of:

   transmitting a device query from the first device to at least

      the primary wireless network;

   retrieving a profile of the wireless device, the profile

      comprising data pertaining to at least the primary

10   wireless network and the secondary wireless network with

      which the wireless device is communicable;

   adding a first transmission header to the query;

   transmitting the query and at least a portion of the first

      transmission header to the wireless device in the primary

15   wireless network;

   adding, after a predetermined number of transmission

      attempts, a second transmission header to the query in

      accordance with a communication protocol used by the

      secondary wireless network;

20   transmitting the query and at least a portion of the second

      transmission header to the secondary wireless network;

   receiving the query at the secondary wireless network and

      further transmitting the query to the wireless device via

      the secondary wireless network; and

25   displaying the results of the query at the first device.

63. A system for enabling a first device operatively communicable with at least a primary wireless network to query a wireless device, said system comprising:

5   a host computer, operatively communicable with the primary wireless network, capable of receiving a query from the first device;

the primary wireless network comprising a routing switch comprising:

10   a middleware server enabling said host computer to operatively communicate with said routing switch;

an internal routing server receiving the query from said host computer and attaching to the query transmission headers for internal routing within said primary

15   wireless network;

a request server retrieving a profile of the wireless device;

a routing server operatively communicable with said request server adding a radio frequency header to the

20   query and transmitting the query and at least a portion of the radio frequency header to the wireless device;

a query server operatively communicable with at least one of said request server, said routing server, and said complementary network server managing the flow of each

25   query from the first device to the wireless device; and

a web server operatively communicable with said host

computer and said query server for electronically

formatting query results for transmission to the first

device and transmitting query results to the first

5   device.

64. The system according to claim 63, wherein the query

comprises at least one of a wireless device availability check,

a roaming history report and a modem statistics report.

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65. The system according to claim 63, wherein the first

device is a wireless device.

66. The system according to claim 63, wherein the first

15   device is a non-wireless device.

67. A system for enabling a first device operatively

communicable with at least a primary wireless network to

transmit a device query to a wireless device, said system

20   comprising:

a host computer, operatively communicable with the primary

wireless network, receiving a query from the first device;

the primary wireless network comprising a routing switch

comprising:

at least a first line handler for receiving the query from

said host computer;

a middleware server enabling said host computer to

operatively communicate with said routing switch via a

5   first line handler;

a request server retrieving a profile of the wireless

device;

a routing server operatively communicable with said

request server for appending a radio frequency header to

10   the query;

at least a second line handler for receiving the query and

the radio frequency header from said routing server; and

a web server operatively communicable with said host

computer and said query server for electronically

15   formatting query results for transmission to the first

device and transmitting query results from the wireless

device to the first device.

68. The system according to claim 67, wherein said routing

20   switch further comprises a query queue operatively communicable

with at least one of said request server and said routing

server that manages the flow of each query.

69. The system according to claim 67, wherein the query comprises at least one of a wireless device availability check, a roaming history report and a modem statistics report.

5   70. The system according to claim 67, wherein the first device is a wireless device.

71. The system according to claim 67, wherein the first device is a non-wireless device.

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72. A method for enabling a first device operatively communicable with at least a primary wireless network to transmit a device query to a wireless device, said method comprising:

15   transmitting a query via a first device, the query being transmitted to a routing switch within the network via a host computer operatively connected thereto;

receiving the query at the routing switch from the host computer via at least a first line handler, said routing

20   switch performing the steps of:

retrieving a profile of the wireless device;

adding a radio frequency header to the query;

transmitting the query and at least a portion of the radio frequency header to the wireless device via at least a

25   second line handler;

electronically formatting query results from the wireless

device for transmission to the first device; and

transmitting query results to the first device.

5   73. The method according to claim 72, further comprising the

step of queuing the query prior to transmitting the query to

the wireless device.

        74. The method according to claim 72, further comprising the

10   step of queuing the query results prior to transmitting the

query results to the first device.

        75. The method according to claim 72, wherein the query

comprises at least one of a wireless device availability check,

15   a roaming history report and a modem statistics report.

        76. The method according to claim 72, wherein the first

device is a wireless device.

20   77. The method according to claim 72, wherein the first

device is a non-wireless device.